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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/002,614	11/29/2001	Eva Kluge	CRR0002	2915
7590 02/22/2005 KENNETH J. SHEEHAN, BAKER & HOSTETLER LLP WASHINGTON SQUARE, SUITE 1100 1050 CONNECTICUT AVENUE, N.W.			EXAMINER	
			PHAM, THOMAS K	
			ART UNIT	PAPER NUMBER
WAHINGTON	I, DC 20036-5304		2121	•
			DATE MAILED: 02/22/2003	s .

Please find below and/or attached an Office communication concerning this application or proceeding.

- le - a		Application No.	Applicant(s)			
		10/002,614	KLUGE ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Thomas K Pham	2121			
Period for I	The MAILING DATE of this communication app Reply	ears on the cover sheet with the c	orrespondence address			
THE MA - Extension after SIX - If the perior of NO perior of Any reply	RTENED STATUTORY PERIOD FOR REPLY ALLING DATE OF THIS COMMUNICATION. Insoftime may be available under the provisions of 37 CFR 1.13 (6) MONTHS from the mailing date of this communication. In it is it is provided in the second period with the second period for reply specified above, the maximum statutory period we reply within the set or extended period for reply will, by statute, or received by the Office later than three months after the mailing atent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1)⊠ R	esponsive to communication(s) filed on 29 No	ovember 2004.				
· ·	This action is FINAL . 2b) This action is non-final.					
3)□ Si	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
CH	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition	of Claims					
4a 5)□ Cl 6)⊠ Cl 7)□ Cl	aim(s) <u>1-25</u> is/are pending in the application.) Of the above claim(s) is/are withdrav aim(s) is/are allowed. aim(s) <u>1-25</u> is/are rejected. aim(s) is/are objected to. aim(s) are subject to restriction and/or	vn from consideration.				
Application	Papers					
9)∐ Th	e specification is objected to by the Examine	r.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Ap	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority und	ler 35 U.S.C. § 119					
a)□ . 1.l 2.l 3.l	Certified copies of the priority documents	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)		∧ □	(DTO 442)			
	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948)	4) ∭ Interview Summary (Paper No(s)/Mail Da	(P1O-413) ite			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) Control of PTO-152) Control of PTO-152 Control of PTO						

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Response to Amendment

1. This action is in response to request for re-consideration filed on 11/29/2004.

2. Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

Quotations of U.S. Code Title 35

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claim Rejections - 35 USC § 102

7. Claims 23 and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent

No. 6,438,535 ("Benjamin").

Regarding claim 23

Benjamin teaches a method for displaying a product manual for a particular product, the product

comprising a plurality of components and sub-components, in an interactive graphical user

interface, the method comprising the acts of:

- gathering resources related to the product and its components and sub-components, the

information including information of types selected from the group consisting essentially

of documentation, ordering information, graphical display information, functionality,

actions, error states and animation (col. 2 line 67 to col. 3 line 8, "The lookup tables

contain ... configuration parameters and interfaces");

- organizing the information into sets of information related to particular components and

sub-components within the particular product (col. 2 lines 60-65, "The relational database

contains ... unique to the particular assembly");

- defining a unit object data structure to hold data for related to a particular component

irrespective of the data type (col. 19 lines 52-62, "The unit definition process ... in the

part definition"); and

using data from the unit data structure of an initial component to generate a graphical

user interface corresponding to the unit data structure and presenting user-selectable links

to sub-component unit data structures (col. 16 lines 32-30, "The process for manipulating

data ... driven graphical user interface").

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Regarding claim 24

Benjamin teaches the act of using the first instance to instantiate subsequent instances of the unit

object class for selected sub-components (col. 20 lines 58-62, "The unit interconnection ...

opposite gender and are unconnected").

8. Claim 25 is rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No.

6,453,687 ("Sharood").

Regarding claim 25

Sharood teaches an appliance (title) comprising:

a plurality of subsystems cooperating to cause the appliance to perform one or more

functions (col. 7 lines 32-39, "The appliance communication module ... installed with

any appliance" [the subsystems such as the appliance communication module and the

retrofit plug are working to control, monitor and diagnose the appliance]);

an electronic control system including a data processor and memory capable of executing

program instructions to control operation of the subsystems (col. 5 lines 18-22, "The

control server 100 is ... includes a processor 200");

an interface coupled to the data processor for accessing external data sources (col. 5 lines

22-28, "The processor 200 is connected ... the primary BC system networks 1-5"); and

computer code devices executing on the data processor to cause the processor to

implement a graphical user interface displaying data obtained from the external data

sources (col. 9 line 56 to col. 10 line 8, "The PLC coded signals ... the user to shut the

door").

Claim Rejections - 35 USC § 103

9. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Benjamin in view of U.S. Patent No. 5,864,480 ("Ladd").

Regarding claim 1

Benjamin teaches an electronic product manual comprising: a plurality of data structures holding data representing a product and having a hierarchical relationship as components and sub-components with each other (col. 3 lines 63-65, "A single database may contain ... and assembly definitions" [each table in a relational database represent a data structure]); a graphical user interface (GUI) configured to present data selected from the plurality of data structures to a user in the form of displayed objects, receive input from the user, and enable a user to select data from the plurality of data structures by selecting a displayed object (col. 4 lines 3-5 and col. 16 lines 27-30). Benjamin does not specifically teach a first view of the selected data structure displayed in the GUI upon selection, the first view comprising an image of the selected object; a second view of the selected data structure displayed in the GUI upon selection, the second view including information indicating a hierarchical relationship of the selected data structure with respect to other data structures; and a third view of the selected data structure displayed in the GUI upon selection, the third view including component-specific information. However, Ladd teaches a computer-implemented electronic product development documentation including a first view of a selected data structure displayed in the GUI upon selection, the first view comprising an image of the selected object (col. 4 lines 43-44, "The PDG can open ... clicking on the document icon"); a second view of the selected data structure displayed in the GUI upon selection, the second view including information indicating a hierarchical relationship of the

selected data structure with respect to other data structures (col. 4 lines 58-61, "For browsing purposes, the PDG ... its respective product tree"); and a third view of the selected data structure displayed in the GUI upon selection, the third view including component-specific information (col. 4 lines 61-67, "From here, one of the phase tree ... tool to which it is linked") for the purpose of enabling a user to have immediate access to the integrated information, guidance, advice, assistance, training and other useful information about a product. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the graphical interfaces of Ladd with the product relational database of Benjamin because it would provide for the purpose of enabling a user to have immediate access to the integrated

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Regarding claim 2

from the data structures of Benjamin.

- Ladd teaches the first, second and third views of the selected data structure are displayed simultaneously (fig. 1 shows the PCC24 displayed simultaneously multiple windows).

information, guidance, advice, assistance, training and other useful information about a product

Regarding claim 3

Ladd teaches the graphical user interface is configured to enable selection of any displayed object from any of the first, second and third views (col. 4 lines 58-67, "For browsing purposes ... to which it is linked").

Regarding claim 4

Benjamin and Ladd teaches the selected object having user-selectable sub-components but do not teach the first view comprises a three-dimensional image. "Official Notice" is taken for the concept and advantages of having a manual with a three-dimensional image component display

is well known and expected in the art. U.S. Patent No. 5,794,257 by Liu et al. teaches this well

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known aspect by showing complex pieces of equipment in 3D with a Computer Aided Design

(CAD) model (col. 5 lines 56-62).

Regarding claim 5

Ladd teaches the first view further comprises help information obtained from the selected data

structure associated with a particular displayed object and made visible in the first view when

user input indicates a focus on the particular displayed object (col. 9 lines 10-14, "In the PDG 30

... and a Help Program 32").

Regarding claim 6

Ladd teaches the second view comprises a tree structure depicting the hierarchical relationship

(col. 6 lines 50-63, "A life cycle tree, as defined ... tree can be created").

Regarding claims 7 and 14

Benjamin and Ladd do not teach the third view presents ordering information relevant to the

selected object. "Official Notice" is taken for the concept and advantages of having a view

presents ordering information relevant to the selected object is well known and expected in the

art. U.S. Patent No. 5,504,674 by Chen et al. teaches the well known feature in form of an

electronic insurance estimating manual which including a part ordering information for the

damage (col. 5 lines 46-53, "The communications network ... to the repair terminals").

Regarding claims 9 and 15

Benjamin and Ladd do not teach at least one of the plurality of data structures includes a pointer

to an external data store having current information. "Official Notice" is taken for the concept

and advantages of having a view presents ordering information relevant to the selected object is

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well known and expected in the art. U.S. Patent No. 5,794,257 by Lui et al. teaches this well

known feature by using hyperlink for directing (pointing) user to an external data store for

current information of a manual on a part (see abstract).

Regarding claim 8

Ladd does not teach each of the plurality of data structures includes data types relevant to the

first, second and third views. However, it is inherent for the multiple views to includes data types

relevant with each other since they are related and associated with one another.

Regarding claim 10

Ladd teaches a selection tool operable to receive user input and indicate a user-selected object

from the plurality of displayed objects in one of the first, second, and third views (col. 4 lines 10-

15, "The PSG is used ... release of the products"); wherein the GUI for updating the first,

second, and third views in response to the user's selection of an object (col. 3 lines 26-32, "The

PCC 24 is modifiable ... milestones, and tools").

Regarding claims 11 and 22

Ladd teaches each of the plurality of data structures defines a default perspective and the act of

updating the first, second and third views comprises presenting the default perspectives (col. 2)

11-19, "The PCC includes a graphical ... quality management process").

Regarding claim 12

Benjamin teaches a display object for a product manual having a graphical user interface, the

display object corresponding to a real-world component of a system, the display object

comprising: a link to a unit data structure (fig. 1-3 shows the linking relationship between tables

or data structures). Benjamin does not specifically teach first presentation means initiated in

response to selection of the displayed object and operable to retrieve an image of the display object from the unit data structure and display the image using the graphical user interface; second presentation means initiated in response to selection of the displayed object and operable to retrieve a hierarchical view from the unit data structure and display the hierarchical view using the graphical user interface; and third presentation means initiated in response to selection of the displayed object and operable to retrieve a information about the real-world component from the unit data structure and display the information using the graphical user interface. However, Ladd teaches first presentation means initiated in response to selection of the displayed object and operable to retrieve an image of the display object from a unit data structure and display the image using the graphical user interface (col. 4 lines 43-44, "The PDG can open ... clicking on the document icon"); second presentation means initiated in response to selection of the displayed object and operable to retrieve a hierarchical view from the unit data structure and display the hierarchical view using the graphical user interface (col. 4 lines 58-61, "For browsing purposes, the PDG ... its respective product tree"); and third presentation means initiated in response to selection of the displayed object and operable to retrieve a information about the real-world component from the unit data structure and display the information using the graphical user interface (col. 4 lines 61-67, "From here, one of the phase tree ... tool to which it is linked") for the purpose of enabling a user to have immediate access to the integrated information, guidance, advice, assistance, training and other useful information about a product. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the graphical interfaces of Ladd with the product relational database of Benjamin because it would provide for the purpose of enabling a user to have immediate access

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to the integrated information, guidance, advice, assistance, training and other useful information

about a product from the data structures of Benjamin.

Regarding claim 13

Ladd teaches selection means operable to retrieve selected data from the unit data structure in

response to user input indicated selection of the displayed object (col. 2 lines 27-36, "The system

accepts a ... release and support").

Regarding claim 16

Ladd teaches functionality means for accessing a description of functionality of the real-world

component from the unit data structure (col. 5 lines 6-10, "The Functional Description ... assist

in concept description").

Regarding claim 17

Ladd teaches actions means for accessing a description of actions that are possible to perform on

the real-world component from the unit data structure (col. 5 lines 6-10, "The Functional

Description ... assist in concept description").

Regarding claim 18

Ladd teaches error state means for accessing a description of potential error states for the real-

world object from the unit data structure (col. 8 lines 17-37, "The product description ... step to

be undertaken").

Regarding claims 19 and 20

Benjamin and Ladd do not teach animation means coupled to communicate with the actions

means for retrieving animation sequence data from the unit data structure and generating an

animation depicting the actions on the graphical user interface. "Official Notice" is taken for the

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concept and advantages of having animation in an electronic manual to depict the actions on a graphical user interface is well known and expected in the art. U.S. Patent No. 6,567,079 by Smailagic et al. specifically teaches this well known feature by displaying maintenance information using animation to identify the components (col. 6 lines 27-33, "Maintenance – As

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systems ... to replace them").

Regarding claim 21

Ladd teaches data structures within the unit data structure for indicating relationships between the display object and other, external display objects, wherein the relationships mirror relationships between real-world components (col. 6 lines 50-63, "A life cycle tree ... tree can be created").

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to examiner *Thomas Pham*; whose telephone number is (571) 272-3689, Monday - Thursday

from 6:30 AM - 5:00 PM EST or contact Supervisor Mr. Anthony Knight at (571) 272-3687.

Any response to this office action should be mailed to: Commissioner for Patents, P.O.

Box 1450, Alexandria VA 22313-1450. Responses may also be faxed to the official fax

number (703) 872- 9306.

Information regarding the status of an application may be obtained from the Patent

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas Pham

Patent Examiner

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February 15, 2005

Anthony Knight

Supervisory Patent Examiner

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Group 3600